

# THE NEW IMPROVED CHIEF BRICK MACHINE.

PATENTED JAN. 1, 1884, AND APRIL 2, 1884.



## STEAM POWER CHIEF BRICK MACHINE

MANUFACTURED BY

Anderson Foundry and Machine Works, Anderson, Ind.

C. H. CARPENTER, PRESIDENT.  
W. N. DUBBIN, VICE-PRES.

C. E. BRADBURY, SEC. AND TREAS.  
W. C. VANNEMAN, SUPT.



## THE NEW IMPROVED CHIEF BRICK MACHINE.

The Chief Brick Machine has been exhibited in working order at the following great Industrial Expositions and State Fairs:-- Louisville, Ky., 1883; Kansas City, Mo., '85; Columbus, O., 1885, and 1886; Indianapolis, Ind., '85, '86 and '87; St. Louis, Mo., 1885, and '86; Cincinnati, O., 1886; and Chicago, Ill., 1887, and at each and every one of the above named exhibitions, where premium was awarded, the CHIEF carried off the first prize medal in every instance over all competition. These awards were given by a committee of selected and experienced brick manufacturers, who visited each competing machine while in operation, after which their decision was based on the true merits of all considerations--thirteen points in all---such as best and most perfect sanded brick, simplicity in construction, strength and durability, different kinds of clay that it is capable of working up into first-class brick, its capacity and speed for making brick, the least power and labor required to make brick, etc., etc.

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### Errata.

On page 29, Remenderfer & Beasecker should read "Bemenderfer & Beasecker."

On same page, testimonial of Edward King should bear date "Butte City, Mont., Dec. 10, 1890."

On page 26, date of Wm. Groscop should read "Buckhannon" instead of Buckingham.



ANDERSON FOUNDRY

—AND—

MACHINE WORKS,

ANDERSON, INDIANA.

C. H. CARPENTER, Pres't.

C. E. BRADBURY, Sec'y and Treas.

W. N. DURBIN, Vice-Pres.

W. C. VANNEMAN, Supt.

MANUFACTURERS OF IMPROVED

**TILE AND BRICK MACHINES,**

PORTABLE AND STATIONARY

**STEAM ENGINES AND BOILERS,**

Portable and Stationary Circular Saw Mills,

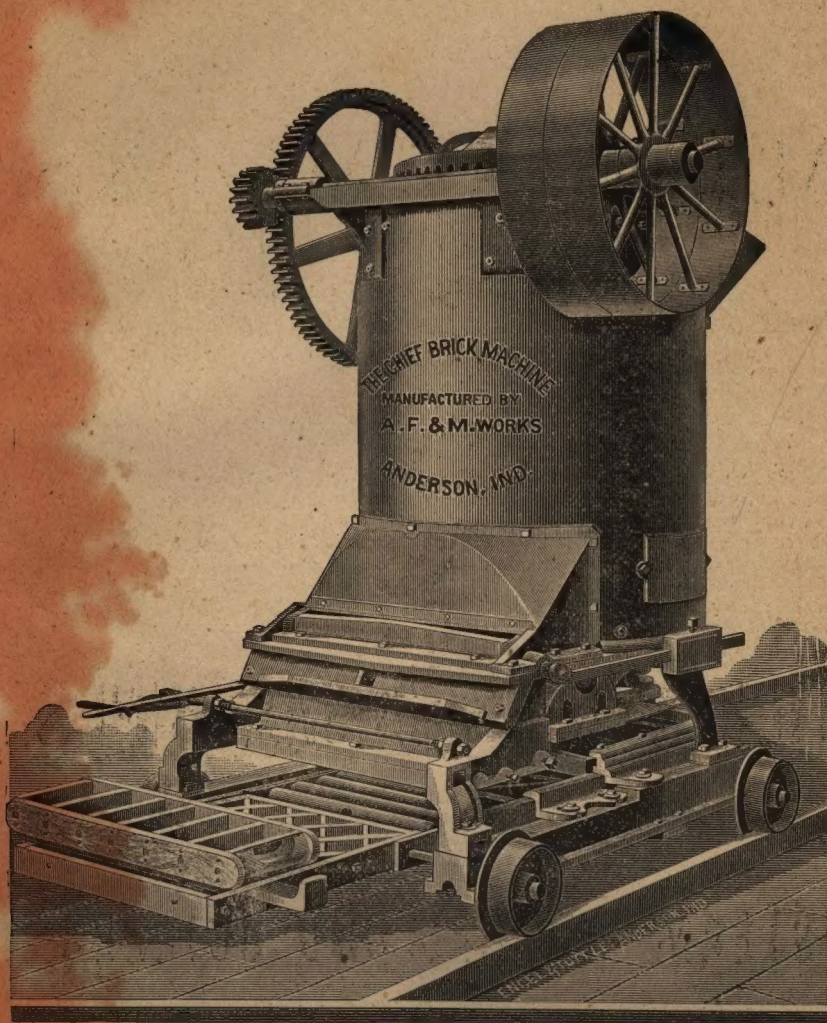
Sheet Iron Work, Shafting, Pulleys, Hangers, Journal Boxes, Iron Castings,  
Brass Goods, Gas Pipe and Fittings, Belting, Etc.

Address,

ANDERSON FOUNDRY AND MACHINE WORKS,

ANDERSON, INDIANA.





THE ABOVE ILLUSTRATION REPRESENTS OUR

## New Improved Chief Brick Machine

Geared for Steam Power. This is what we call or term the machine complete, ready to receive the soaked clay, and the drive belt for operation. It also represents the manner in which it should be placed on the track in the yard.

Shipping weight, 5,000 pounds. Horse-power shipping weight, 4,500 lbs.

We keep constantly on hand a large assortment of eight, ten and twelve-horse power second-hand Engines, that have been thoroughly overhauled and repaired, tested and put in perfect working order, which we will sell at prices ranging from \$250.00 to \$650.00, and which we will warrant to give ample power to run successfully and with ease our Brick Machine, and answer every practical purpose of new engines.



## THE NEW IMPROVED CHIEF BRICK MACHINE.

*There are now over 500 of these Machines in Successful Operation in the United States, having them in Every State and Territory in the Union.*

The trade on our New Improved Chief for the past year has been more than satisfactory to us. We have been successful in placing our machines in every State in the Union, and also extending our trade into Mexico, where we are meeting with greatest of success. The New Improved Chief Brick Machine was invented in the year 1883, and patented January 1st, 1884. From that date until April, 1886, there was but little change or improvement made on the Chief, although they were working successfully in thirty-five states and five territories. This firm, being progressive men, did not lose sight of the fact that this is an age of improvements, and to keep up with the age and to fill the requirements of the different kinds of clay that is being worked into brick and other wares (and especially fire clay), we have improved the Chief, until the Chief of today is nothing like the Chief of old. With these improvements, now put on and patented in 1885, 1888 and 1889, which will be enumerated further on, the New Improved Chief surpasses all other machines in simplicity of construction and working parts, material, and workmanship used in its construction, and quality and quantity of work it is capable of performing. It makes better and cheaper brick than it is possible to make by hand or by any other process, from any clay that can be worked by hand. It surpasses all other machines in strength and durability, because it is built entirely of steel and iron—no wood about it except a break or safety pin, which being the weakest part of the machine, will give way when any firm substance interferes with its free operation: thereby saving not only other parts of the machine, but time and delays that it would require to replace parts that sometime might break were it not for the presence of this safety pin. Almost two-thirds of our sales for the years 1887, 1888 and 1889 have been to parties and firms that have purchased the Chief in order to replace other machines that were constructed partly of wood and proved to be of short life on account of the constant twisting and warping of such materials.

### *How the Improved Chief is Constructed.*

As stated above, the machine is constructed entirely of steel and iron. The main shaft is of solid steel three and one half inches in diameter, and is not weakened by having holes drilled through it for attaching the knives (as in other machines). The knives attached to the main shaft are made detachable, so that they can be placed at any desired distance apart, or the number of them can be increased or diminished, according to the consistency that the clay is required to be tempered or pugged. The knives are made of wrought iron, hammered into the most available shape for cutting, grinding and tempering the clay. The sweeps attached to the main shaft for throwing the mud into the press box in front of the plunger are also made detachable and has attached to them a strong spring in order to keep the sweeps close to the bottom of the machine and at the same time



allow the sweeps to spring up and over any hard obstacle, such as stones, etc., thus preventing breakages. Another advantage in having the knives and sweeps detachable is that, in case new ones are ever needed, the old ones can be taken out and new ones inserted without taking out the shaft, or moving the hub, or disturbing any other part of the machine. Our device for letting stone and other obstructions escape without damage to the machine is wonderful in its operation and positive and sure in its execution.

The cylinder or drum is boiler iron, is forty-two inches in diameter, and fifty-two inches high, is well riveted and has a strong iron base. The boxes and bearings are all well babitted, and all outside of the drum, and entirely protected from mud, sand or water. Brass oil cups with tubes leading to the bearings are attached so that the machine can be easily and conveniently oiled from the outside of the machine while in operation. The bottom, the plunger, the plunger plate, the side walls, the relief plate, the cross head, the connecting rod, and the die, are all planned and so well fitted that the machine can run in no other manner than true and light. All the parts are adjustable, so that lost motion or wear that may occur in time can be easily taken up at all times so as to prevent leakage, etc. When necessary, new parts can be duplicated at very small expense and inserted into proper position by any one without any trouble and make the machine as good as new; this is a very simple device and any person with a wrench can in a short time adjust all parts. The sills are also iron, under which are adjustable axles and iron wheels, so the machine can easily be moved in any direction. A substantial door or hand hole, large enough to admit a shovel, is adjusted to the side and close to the bottom of the cylinder, through which the inside is made accessible for cleaning or removing any firm substance that may find its way into the machine. This door enables one to get into the bottom of the drum and at the sweeps and knives without digging from the top down through the mud as is the case in all other machines. Horse-power machines can be changed to steam power, as both are of the same size. The steam attachments are placed on top of the machines as represented in cut. All other gearings are under the iron bottom of the machine and well protected from any mud or leakage. The machine is provided with a quick and positive device for throwing it out of gear in an instant. It is also provided with a device attached to a lever that regulates the pressure of the clay from the press box into the brick molds, so that clay can be worked at any desired consistency to suit the temper of the mud, and always insures a perfect brick.

The new improvements put on in 1888 and in 1889 are as follows: Machine is much stronger than the old one in every particular, shafts heavier and of steel, crown wheel much heavier and stronger, pinions made heavier, four pieces less in its working parts, and consequently is less complicated. The carriage for pushing out the molds runs in guides, same as are on an engine and is much stronger. The device for pushing and drawing carriage is greatly improved, as it pushes and draws from the center of carriage and prevents wobbling and side motion, etc. The plunger has a direct and positive pressure on the clay in the press box and its forward movement cuts off all communication from the press box to the mud drum so that the clay can not float back into the mud drum, the mud being under full control of the plunger and there being no other chance of escape for it but through the die, it is forced into the molds into perfect brick. This device enables the New Improved Chief to work stiffer clay into more perfect brick, than any other mud machine on the market. The wiper and sweeps are greatly improved, also; by their peculiar shape and adjustment, so that the clay in any consistency is forced from the center of the drum to the outside of same, and at the same time the clay is forced down, so that when the wipers come to the opening of the press box the clay is forced into the press box, which is at all times full. Whether the clay is stiff or soft it is the same. The knives on the main shaft are so adjusted that the tendency is to cut and force the clay down, and an extra wide set with a peculiar curve are placed immediately in front and a little above the wipers, especially in very stiff clay. Any one familiar with brick making cannot fail to appreciate this as well as the other points that have been briefly mentioned here, and can see that the New Improved Chief has at last overcome all the objectionable features that were in the old machine.



### *The Size and Weight of the Machine.*

It requires less space or room than any other machine on the market, as the height of the steam power is but eight feet, and the height of the horse power is but eight feet, width of machine five feet, length of machine six feet when in operation. The weight of the steam power machine is 6,000 pounds. The weight of the horse-power machine is 5,200 pounds. In shipping machines it is our usual custom to bill for freight the steam-g geared machines at 5,000 pounds, and the horse-power machines at 4,000 pounds.

### *How It Operates.*

It grinds its own clay well, and at the same time does its own moulding successfully, feeding the clay down in front of the plunger, pressing the same horizontally and so evenly that the bricks at the ends and the center of the molds are just alike and will shrink alike in burning.

It makes six bricks at once with each stroke. No wires or knives are used. It keeps the clay in the molds without releasing the pressure until the filled mold is started out from under the press box and is delivered over four iron rollers to the front of the machine, thus delivering the molds with one-fourth the power and one-fourth the wear on the molds over any other way.

It is a thorough temperer, mixing and grinding the clay with as many as twelve adjustable knives, or any less number to correspond with the nature of the clay, so that the bricks will stand any climate and not crack in drying or burning.

It fills the molds solid, until the cylinder is nearly empty of clay, making sharp edges and corners, so that the brick will find a ready market as front brick at highest prices.

With a lever near the striker the pressure upon the clay into the molds can be quickly increased or decreased, to any desired degree, while the machine is running, as the condition of different kinds of clay may require. Clay that is too stiff, too soft, or too tough for hand molding is no detriment, if suitable sand is used for coating the molds.

It can be thrown in or out of gear, so that in the beginning it can temper the clay as long as may be desired without delivering any brick.

It matters not if the machine is running fast or slow, the brick made are equally perfect and solid.

The motion and stoppage of the mold slide allows the sander ample time to insert the molds. It is capable of making the finest quality of brick without re-pressing. Molds can be inserted from either side of the machine to suit convenience of situation.

### *Capacity.*

The machine for steam power delivers two molds, or twelve bricks at each revolution of the main shaft, so if the engine is speeded to drive said shaft five revolutions per minute, it will make sixty brick per minute, or 3,600 per hour, or more or less according to the speed given by the engine. The capacity of the machine is limited only by the facilities for taking away the brick.

The Horse Power Machine delivers three molds, or eighteen brick, each time the horse goes around the circle, so if the horse walks two times around in a minute, the machine makes thirty-six bricks in a minute, or over 2,000 per hour.

One horse hitched to a twenty-foot sweep, can successfully operate the machine all day long, but to make 20,000 or more brick per day, two horses are required to a sixteen-foot sweep or pole. The Chief is the most suitable machine with which to manufacture brick, either on a large or on a small scale.

You will observe from the numerous testimonials from our customers that an average day's run for steam power is about 25,500 bricks per day, and the average for horse power machine is about 20,000 per day.

### *Durability.*

The Chief Brick Machine is simple in construction, durable and very strong. There are no bulky wooden parts, posts or frame work attached



thereto to be re-framed every year, or to rot, shrink and swell, warp and twist or to burn up, but after years of profitable use, the Chief will be almost the same as when new, and as exposure to the weather, or stones or other obstacles can do it no harm, repairs will not likely be needed for many years. Every purchaser will be pleased with it, and no other machine will be bought wherever the Chief is known.

### *The Only Way to Make Good Brick.*

Good brick can only be made either by hand or with a soft-mud machine, as the clay must be soaked or made wet and be tempered in a natural way to prevent brick from cracking.

### *It Is No Dry-Dirt Machine.*

It is well known that a dry-dirt machine can only be operated with a heavy engine or by hydraulic power, and the clay must be dried and be free from sand and joints, and the weather of even temperature, and even teen a large per cent. of the brick are lost by cracking and crumbling, and in burning them, one-fourth more fuel and time are required.

### *How Shipped.*

The machine when shipped is complete within itself, just as it is shown in our cuts (except moulds and trucks) with folding iron molding table, all set up ready for operation. The steam gearing is all attached to Steam Power Machine, including two (one tight and one loose) strong wrought iron patent belt pulleys thirty inches in diameter, suitable for a six-inch belt, ready to receive belt from engine. The Horse Power Machine is ready to receive the sweep or pole to which to hitch the horses. The pulley on Steam Power Machine should run from 110 to 120 revolutions per minute.

### *Where Machine Can be Seen in Operation.*

We can show the machine in full operation in a building erected for the special purpose at our shops, at any time and during all kinds of weather, and in different kinds of clay. We invite you to come here, because you can make a more thorough and satisfactory examination of all parts and see the machine in any stage of erection, or to make the matter doubly sure, you can ship us a barrel of your own clay before you start and on your arrival here you can witness the result of making brick out of said clay, and should you conclude to purchase a machine, after seeing it in operation, we will make ample deduction from the price to cover your traveling expenses.

### *How to Order.*

When ordering a Brick Machine, state if for steam or horse power, the size and number of molds wanted, and the number and kind of trucks wanted. The steam gearing is so constructed that it can receive the belt direct from any ordinary eight, ten or twelve-horse power portable engine, but where it is intended to move the machine from one soak pit to another on a track, then a line shaft will be needed. Our ten-horse Portable engine will run two machines with ease.

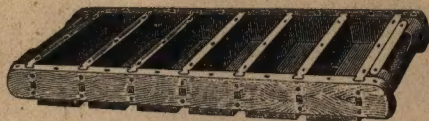
### *How Many Molds and Trucks Are Required.*

Eighteen molds and three trucks are required when brick are wheeled off and dumped on the yard, six molds and three trucks when they are dumped on pallets at the machine. Ten molds where they are carried off and dumped on the yard.

Money is well invested, however, in getting two or three extra molds, and one extra truck.



*MOLDS.*



Our molds are made of clear, dry, cherry lumber, and are iron bound all around, and iron cross pieces dovetailed into the sides.

When ordering, state how many molds are wanted, and give the exact inside measure of their length, breath and thickness.

Purchasers will note that our standard sizes of brick molds are:  $8\frac{1}{2} \times 4\frac{1}{2} \times 2\frac{1}{2}$

chasers will note that our standard sizes of slick molds are:

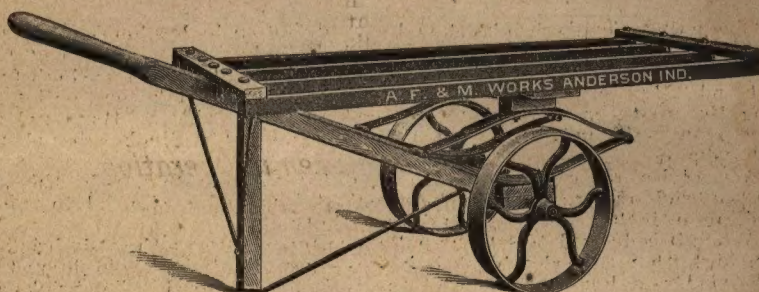
8 1/2 x 4 1/2 x 2 1/2
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9 x48x21

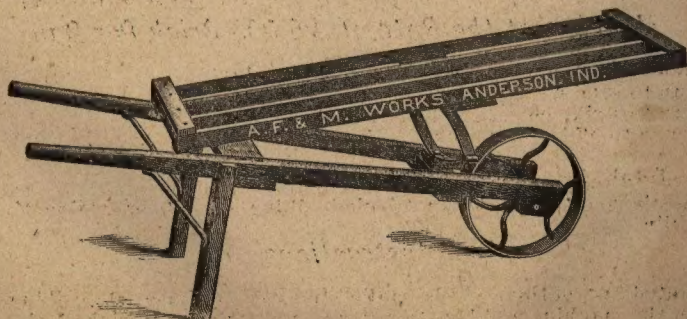
9 x4<sub>2</sub>x2<sub>1</sub>

with dies to suit. These sizes are kept in stock, but other sizes will be made and furnished on short notice.

## SPRING TRUCKS.



OUR TWO WHEEL TWO SPRING TRUCK.



OUR ONE WHEEL ONE SPRING TRUCK.

The wheels on the above Trucks have wide, flat tread, and will not cut up the yard. The trucks are built to carry six molds and are made very strong.



*No. 1 Brick Barrow.*

Made from the best seasoned white oak, frame mortised and well braced. Legs braced and cross-braced underneath; iron wheel, axle and bearings.

No. 2. A Spring Barrow similar in construction to No. 1.

*How to Make Pallets.*

The pallets for six bricks should be thirty-four inches long, or the full length of the mold, and nine and one-half inches wide, and about five-eighths of an inch thick, and have cleats nailed on underneath one inch from each end. Five or six common plastering lath will make one pallet, by using the waste or short pieces for end and cross pieces. Burn and use three penny nails and drive through onto iron, so as to clinch well and prevent warping.

We advise all brick makers to adopt the pallet system, as by this system the brick are preserved in their perfect form and need no edging up or handling until they are dry enough to set in the kiln.

When it is desired to set the pallets on top of one another, six brick or more high, then a wooden block  $1\frac{1}{2}$  inches square by  $2\frac{1}{2}$  inches high must be nailed under each corner of pallet; no racks are required. The bricks are protected from rain. This is a saving in the yard room and distance of transporting brick from machine.

*Estimated Cost of Making Brick With Anderson Chief Brick Machine at the Rate of 25,000 Brick Per Day.*

Two men to feed machine at.....	\$1.50 per day.....	\$3.00
One man to sand molds.....	1.25 per day.....	1.25
One man to strike off.....	1.25 per day.....	1.25
Three men to off-bear or rack.....	1.25 per day.....	3.75
Total.....		\$9.25

The above estimate does not include filling the pits or setting the brick in the kiln.

*Instructions.*

Printed instructions will be mailed to each purchaser, describing how to operate the machine and how to arrange and manage a brick yard.

For prices and terms, address,

**ANDERSON FOUNDRY AND MACHINE WORKS,**

C. H. CARPENTER, President.

ANDERSON, INDIANA.

W. N. DURBIN, Vice President.

C. E. BRADBURY, Sec'y and Treas.

W. C. VANNEMAN, Superintendent.



We also manufacture the latest Improved Stationary Engines, from ten horse power up to sixty horse power, and Portable Engines of the latest style and improvements, from eight horse power up to thirty horse power. We have constantly on hand a full line of Second Hand Engines, that are kept in perfect order, that we can sell at greatly reduced prices, suitable for running our Brick Machines. Send for catalogue. Address,

ANDERSON FOUNDRY AND MACHINE WORKS,  
ANDERSON, INDIANA.

## TESTIMONIALS.

Of the many unsolicited testimonials and Endorsements received we, in this pamphlet, have only space sufficient for the following letters. We cheerfully invite intending purchasers to correspond with any of the parties herein named.

We have only inserted principally the testimonials of those who have owned and operated other machines and those who are acquainted with the other different machines that are on the market.

OMAHA, NEB., Dec. 26, 1888.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN :—Your favor of the 19th inst. at hand. Will say in reply that we purchased our first machine of you in 1886; in 1887 one and in 1888 three more. We now have five of your Chief Machines. The first one purchased gave such good satisfaction that since then twenty-two more Chiefs have been bought in this city. The quality of the brick made is good, with sharp edges and full corners. We have no trouble in making 30,000 per day on each machine. In durability they are unexcelled by any other machine used in the city. We use no crushers, no pug mill, no soak pit. We work the clay direct from the bank and soak it as it goes into the machine, which thoroughly grinds and mixes it. We use stiffer clay than can possibly be worked by hand. We are well satisfied with the Chief and can heartily recommend it. Yours, etc.

Per L. H. Mickel.

MICKEL, RILEY & CO.

OMAHA, NEB., Dec. 29, 1888.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN :—We have made brick with hand molds for fifteen years. The past season we have operated two of your "Chief" Machines, and by doing so have lessened the cost of manufacture thirty-five cents (35 cents) per thousand. Can work a stiffer clay than the hand molders. The "Chief" Machine can make a good square brick, as we have proved, but we have operated the "Chief" with green hands and have not obtained the result we should like. However, we do not hesitate to say that the work of your machine has been superior to that of any soft mud machine operated in Omaha. Yours truly,

Per J. J. Livesey.

HENRY LIVESEY.

OMAHA, NEB., January, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN :—We do not hesitate to give the Chief Brick Machine a testimonial, and we are glad to say that in buying the



Horse Power Chief we have found just what we wanted and have found it to be a machine far superior to any other kind of brick machine that we know of, and we think we know them all. We have run our machine a season and made 1,600,000 of the finest brick, all perfect, with full corners and sharp edges; and we worked the clay much stiffer than could be done by hand. We dump our brick on the yard and find that they keep their shape and do not pitch, as in other machines. We have been to no expense whatever for repairs, and have not lost an hour for repairs during the season.

Respectfully, SIMPSON & SMITH.

OMAHA, NEB., Jan. 1, 1889.

Anderson Foundry & Machine Works, Anderson, Ind.

It gives me great pleasure to testify that the Chief Brick Machine (steam power) I bought from you early last spring has given me entire satisfaction. I have run it every day during season without any repairs whatever, and the machine will easily turn out 24,000 brick in ten hours, with a great deal less cost than hand-made brick. There are now in Omaha twenty-three of your Chief Brick Machines, and we all agree that the Chiefs are the best machines in the market. Yours respectfully, N. SEIEROE.

OMAHA, NEB., Jan. 5, 1889.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—It gives me pleasure to testify to the great success of the Chief Brick Machine, it being about the only mud machine in use in our city. There are twenty-three Chiefs in use in Omaha at present—in itself a first-class testimonial of its merits. Its movements are perfectly smooth and easy, making 50 brick per minute. Our task is 24,000 per day, which we make with perfect ease in 8 to 9 hours. We think the Chief the best in the world for the following reasons: We have seen several in successful operation here for the past three years, and in several instances under the most adverse circumstances, and in every case they did good work and gave no trouble, they being so substantial in their construction and so easily operated. We are more than pleased with ours (a steam power machine), and in conclusion will say that we have derived more pleasure and profit from your machine than we ever dreamed of, and would recommend it to all practical brick men, who follow brick-making for money, as the best soft mud machine we know of. It is not expensive. It is durable and does good and profitable work, and we would heartily recommend it to any person or firm needing such a machine.

Yours very respectfully,

E. S. FLAGG,  
President Eclipse Pressed Brick Company.

DENVER, COL., Jan. 5, 1889.

GENTLEMEN:—I have had four of your machines—the Chief—in almost constant operation the past season, and can say with perfect consistency that they are all the name implies—Chief in making a fine merchantable brick, with perfect, full corners and sharp edges, superior to any machine or hand-made brick that has come under my personal observation, and I speak with an exper-



ience of over ten years as both brick maker and contractor. I can cheerfully recommend the Chief as the best brick machine and the only machine that has proved successful in making brick from our clay, using a stiffer mud than can be handled even by hand molders. We have had numerous experiments here with different machines, and the Chief is the only one that has stood the test. There are a large number of them in use here, and I understand quite a number are to be ordered for next season. These machines were ordered after a report received by a committee present at the Exposition, and who were very favorably impressed with them while there.

Yours truly, F. N. DAVIS.

DENVER, COL., Jan. 7, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—I bought of your firm, last spring, a Chief Brick Machine. I knew what I was buying, for I had seen it tested in our tough Denver clay the winter previous. I am well pleased with the Chief in all its appointments. It makes the very best of brick, with full corners and sharp edges and equal weight. There are ten Chiefs in Denver now, and likely to be more in the near future. All who have the Chief here are well pleased with it. It has done the very best class of work in our Denver clay, where other machines have been tried and failed.

Respectfully,  
R. P. McDONALD.

DENVER, COL., Jan. 9, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—The Brick Makers' Protective Association of Denver, Col., of which I am a member, sent a delegation of select members of the Association east to investigate Brick Machinery. This committee, after a thorough test of three or four weeks, to a man, recommended the Chief for substantial construction and durability, quantity and quality of brick it was capable of making, etc. The Chief was tested in our different clays (which vary) last winter, and the test was satisfactory to all interested; so much so, that ten Chief Machines are now in Denver. We have had no cause to regret our choice, but on the contrary claim to have the best machine, all points taken; there is manufactured.

Respectfully,  
C. J. SMITH & CO.,  
Present Address, 2914 Walton St., Denver, Col. 2807 Marion St.

DENVER, COL., May 23, 1888.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—I feel confident that this is the last season that brick will be made by hand in Denver. Any one who will be manufacturing brick will be obliged to purchase the Chief or quit the business, as they can not make and compete by hand. I have watched the eleven you have here every day since they started, and kept an accurate account of the expenses, and the difference in this, not counting the pit filling, which is the same for either machine or hand molding, is as follows: 50,000 per day made by hand, laid out on the yard, cost \$87.50; 50,000 per day made by



two of your Chiefs and an engine, put out on yard, cost \$52. Balance per day in favor of the Chief, \$35.50. Pretty good day's wages.

Yours truly,

JOHN MCCAIN.

NOTE.—Mr. John McCain is Secretary of the Brick Makers' Association of Denver, Col., who are the owners and operators of eleven Chiefs.

AKRON, O., March 26, 1888.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN: We now take pleasure to inform you that we have made now about 400,000 brick, with your new improved Chief Brick Machine, and it has not given us the least bit of trouble, and we are much pleased to inform you that we are more than pleased with your machine. I tell you, gentlemen, it makes the finest brick I ever saw, and every word you told us we have found to be the gospel truth. I have told some of my other competitors here who are making brick on other machines that I would not give it for all the other brick machines that are constructed of wood in the State. I mean such machines as we have been using here for several years past. I am also pleased to hear that you have shipped two more machines here to our city. Success to you. I must tell you it is not a question of how many brick we can make on your machine in a day, it is a question of how many we can take care of, as they come in perfect shape from the machine. I dumped 4,000 in one hour last week, as pretty brick as ever was made in the world, and I will wager money that I can make and dump 5,000 nice brick in one hour. We think that we have the best machine in the world. Wishing you success, we remain,

Yours respectfully,

COOPER BRICK CO.

AKRON, O., Jan. 1, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—The steam power Chief Brick Machine that I put in my works last spring is all that you represented it to be, and it gives me pleasure to recommend it to any one who wants to make brick. It makes perfect brick out of any clay that can be worked by hand, and will make them cheaper and much better and of course salable. The Chief runs light, presses the clay into the molds evenly and solid, and the brick are always perfect, and of course lay nicely in the walls and make fine fronts to buildings. We have had no breaks and have been to no expense for repairs, and cannot see why the Chief will not last for many years without requiring any repairing.

I have seen all the other machines that are advertised, and examined them all before purchasing the Chief, and after a thorough examination of them all concluded the Chief was the best, and I am convinced after a season's use of it that I was right in my selection. Respectfully,

Per J. Hugill.

HUGILL & BRIGGS.

AKRON, O., Jan. 1, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—You wish to know how we are pleased with the steam power Chief Brick Machine we got of you last spring,



Well, we can say it is the best machine we know of, and we have seen many kinds and makes, and we feel satisfied, after a year's work with it, that it is far ahead of any machine made, does better work and as much of it with less power. I have made thousands of as fine brick with it as you have ever seen. When it comes to front brick the Chief is equal to the task. The brick-layers are pleased with our brick. We have had no trouble and do not expect to have. Have had no expense for breakage. We would have no other machine than the Chief. Respectfully,

L. WILHELM & SONS.

KANSAS CITY, Mo., Jan. 1, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—The Chief Brick Machine that I bought of you last spring is in every way a success and a great improvement over any brick machine I have ever seen and I think I have seen them all. I have used and worn out in my many years of brick making two different kinds of soft mud machines, and I must say the Chief is better than any of them in every way, makes nicer brick and molds stiffer clay into perfect brick which always have sharp edges and full corners. There are several stiff mud machines in this city and I have watched them with interest before I ordered the Chief to see if there were any such advantages in them as were claimed by their agents, but I have failed to see any. But on the contrary find that they do not make good brick at all, and the contractors claim that my brick made on the Chief are the best brick made in Kansas City. It is only a question of time until the Chief will take the place of all the stiff mud machines and hand-molders in the city. I have many brick makers to visit my yard to see the Chief and all are pleased with it. I have had no breakages and been to no expense for repairs. The machine is well built and strong, as it is made of iron and steel and all the wearing parts adjustable, the lost motion and leakages that may occur can be taken up at any time. In fact the Chief is the boss brick machine and I am well pleased with it in every way, and I will put in another one as soon as I can get a place for a larger yard.

Respectfully,

HENRY SCHREGE.

CANTON, O., Jan. 2, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—The Horse Power Chief Brick Machine we got from you last spring has been running constantly, has never broken down or given us a moment's trouble or delay. It is built and constructed in such a manner that it cannot be anything but durable and lasting. All our brick are perfect, smooth and square, and brick-layers all brag on them. We work our clay stiffer than can be worked by hand. Our clay is very hard to work, but the Chief works it to perfection. We are more than pleased with the Chief.

Respectfully,

P. J. HAIDET & BRO.

FINDLAY, OHIO.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—I am now using the Anderson Chief Steam Power Brick Machine (that I bought of you three seasons ago),



and when I say I am well pleased with it it is putting it very mild; I am more than satisfied. I make from 48 to 90 brick per minute, and I make a nicer and better brick than I ever could make by hand. My clay is very tough and strong, and while I am acquainted with quite a number of other brick machines, I believe they would all fail in my clay. I have a much less per cent. of loss in my brick made from this machine than I had when I made by hand. I attribute this to the manner in which the machine grinds and tempers the clay. My brick are giving better satisfaction among the contractors and brick-layers here than any I have ever made, and I have been making brick for thirty years. I regard the durability of the machine at least five times as long as any other brick machine I ever saw. I believe my machine will last me twenty years. It is easy to run and requires less power than any other machine I ever saw. I run my machine with a ten-horse power engine, and could run two such machines with the same engine at the same time. I don't think the Anderson Chief Brick Machine has an equal on earth.

F. SHEPPARD.

KANSAS CITY, Jan. 13, 1889.

Anderson Foundry & Machine Works.

GENTLEMEN:—The Chief Brick Machine I got of you last spring has given entire satisfaction; in fact, has done better than I hoped, for my machine has run all season at 3,600 per hour, and made as perfect brick as can be produced. I find the machine durable and easily managed. We made 13,000 brick the first afternoon we run it, and not a man had ever worked at the machine before. It will work stiffer clay and make better brick than can be made by hand or any other soft mud machine I have yet seen. I visited several other yards using various other machines, and failed to see any other making as perfect brick as my machine and found but one making as satisfactory as mine, and that was a "Chief." My only trouble has been to get men able to take the brick from the machine, as we run 30,000 a day and find that it doesn't require more than one-half the power that is used for other similar machines. I could run four machines without overloading. In fact, I find the machine all you claim for it, and can cheerfully recommend it to any one wishing a good practical brick machine. Wishing you success, I remain, Respectfully, W. N. WALKER.

P. S.—I made two million in less than four months and had some very bad weather.

W. N. W.

MONROE, WIS., Dec. 22, 1887.

Anderson Foundry and Machine Works, Anderson, Ind.

GENTLEMEN:—Your letter was received some days ago. We had intended writing you some weeks ago to let you know how we had got along with the brick machine, but we neglected to do so. We are glad to say, however, that we are well pleased with the machine. It was late in the season, as you are aware, when we got it. The machine was received on the 18th of August. We had no trouble in starting it. We molded the first brick about 4 P. M. on the 20th, and at 6 P. M. on the same day had made about 3,500. Since then up to the middle of October we made about



350,000. The month of September was so wet that we often had to wait for brick to dry, or we should have made a good many more. Yours truly, CRAVEN, WOOD & CHURCHILL.

CONCORDIA, KAN., Dec. 31, 1888.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—I can say that the horse power Chief Brick Machine that I purchased from you last spring, which I set up and started myself, with an 18-ft. sweep, makes twelve and one-half thousand in about seven hours—as good brick as any machine brick that I have ever seen and better than any hand-made brick that I have ever seen. I dump on pallets and dry in the shed, and have had no trouble with the machine about breaking or getting out of running order, and can willingly recommend it to brick-makers. Have been laying and making brick for forty years.

Very respectfully,

J. A. RIGBY.

WARREN, OHIO.

Anderson Foundry & Machine Works.

We have used your machine the past season and find it just as you represent it—the best machine we ever saw. It does excellent work and is second to none. Respectfully,

MYERS BROS.

UNION GROVE, WIS., Dec. 12, 1887.

A. F. & M. Works.

GENTLEMEN:—We take pleasure in informing you that the Chief Brick Machine that we bought of you last season works like a charm. We did not start until late and hence only made a half million brick, but they are beauties. We think this is the only kind of a machine to make brick, and its capacity to produce is equal to the capacity of the men to get them away, which is all we desire. We can heartily recommend the Chief to any one about to engage in the business. Yours respectfully,

BURLINGTON BRICK & TILE CO.

Per A. L. Buchanan, Sec.

OAKLAND CITY, IND., April 13, 1887.

I can conscientiously recommend the Chief as a good machine. We can make good brick as fast as the men can get them away. It never gives us any trouble.

G. M. EMMERSON.

NEW ORLEANS, LA., Dec. 24, 1887.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—In reply to yours of recent date will say that the Chief (horse power) is a perfect success and gives the best of satisfaction. The brick all have sharp corners and burn evenly. Wishing you the best of success in the future, I remain,

Yours respectfully,

JACOB VONHOVEN.

Ed. J. Englebraught, Supt.

LAFAYETTE, IND.

GENTLEMEN:—Can cheerfully testify to the merits of the Chief. Yours truly,

PETER HENGEN.



CARTHAGE, N. Y.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—I feel it my duty to write you telling you how I and the Chief have been getting along. I have run it all last season and this, and find it the best soft mud brick machine I have ever operated, although I have run and worn out ——— different makes of machines. I make the finest brick in this part of the State on it. Neither time nor labor is lost by it, as we never have to stop for breakages occasioned by external interferences. It is by far the superior of wooden machines, as it remains in true line always. I find it the cheapest machine in the market, taking into consideration its time and money-saving qualities, combined with its durability.

Very truly,

H. HOUGHTON.

FLORENCE, ALA., Dec, 27, 1887.

Anderson Foundry &amp; Machine Works Anderson, Ind.

GENTLEMEN:—Replying to your favor of the 10th inst., we purchased from your agent early last spring one of your Anderson Chief Brick Machines, with horse power attachment. We have made this summer with the machine about 600,000 brick, and we claim them to be the best made brick ever produced in Florence. We have made at the rate of 18,000 brick per day, which we consider a pretty fair day's work with a pair of mules. We are fully satisfied with your machine, and can say to any one in want of a similar machine that it is fully up to your representations.

Yours truly,

THE FLORENCE COAL, COKE &amp; IRON CO.

By J. S. Doe, General Manager.

PLAQUEMINE, ABEVILLE Parish, LA.

Anderson Foundry &amp; Machine Works.

GENTLEMEN:—It is with pleasure that I write that my Chief Brick Machine is all right. I started it myself without any trouble, and have operated it all summer without any accident or breakage.

It makes beautiful brick. It is just the machine that I need, and all that you claimed it to be. I am well pleased.

Every time that the mules goes around the circle it makes eighteen nice brick.

With the exception of a foreman I employ none other than the cheapest kind of laborers:

Hoping you success, I respectfully remain, yours etc.

ALPHONSE DODIER.

DECATUR, ALA., Jan. 5, 1888.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—We feel like it is due you from us to give you a complimentary letter in regard to the Chief Brick (steam power) Machine that we bought from you last spring. We have made on it 1,500,000 nice brick, and did not run over three months in all. We made from 18,000 to 20,000 nice brick per day. The machine tempered our clay nicely, and produced the nicest quality of brick with sharp edges and corners well filled. We are satisfied that the Chief will make a perfect brick in any clay that hand brick can be



made from. The machine has given us entire satisfaction, and we take pleasure in recommending the Chief above all other machines, because we believe it far ahead of all others, Yours truly,

DECATUR BRICK & BUILDING CO.

DECATUR, ALA., Feb. 26, 1890.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—I am still making brick with the Anderson Chief Brick Machine that I bought of you three years ago, and my brick are in the lead above all other bricks made in Decatur. Twenty-five thousand brick per day is my average day's work.

Yours truly, DECATUR BRICK & BUILDING CO.

Per J. W. Hunter.

LOGANSPORT, IND.

GENTLEMEN:—You are aware that the first machine that we bought of you last spring gave us such satisfaction and made such nice brick that after two months' steady use we ordered the second machine from you, starting them ourselves to full satisfaction. We run each machine with two mules, giving the hands a job of 20,000 brick for each machine as a day's work, which they accomplish in  $8\frac{1}{2}$  hours' time.

Our machines have been running steadily every day since we started them. We have lost no time except during bad weather and Sundays. Have had no breaks or leakage. We are making millions of the best quality of brick for the erection of the insane asylum here. We have used, and do now own, other brick machines, but are able to convince any brick man or clay worker that the Chief is the best brick machine, and, all things considered, it is the cheapest machine that a brick maker can procure.

While STRIKES are the order of the day, we could not risk hand molders during the busy time of the brick-making season, but we can depend on the Chief Machine doing its work well at all times with the cheapest class of laborers, and one competent foreman.

Respectfully,

McKAY & BUSHMAN.

STROMSBURG, NEB.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—The Horse Power Chief Brick Machine sold here last spring has proved to be in every respect all that you represented. They started it up themselves and made it a success from the beginning. The machine makes excellent brick, better than hand made, and makes eighteen at every revolution. They have been to no expense for repairs or delays since they started. It works easy with two horses to a 16-foot sweep. Machine presses the clay into brick much stiffer than a hand-molder could use it, and makes a solid brick with sharp corners.

Respectfully,

O. HEADSTRONG.

P. S.—I would further state that the machine has made brick faster and better than any other brick machine in this section of the country, hence Mr. John Olsen, the owner, has been able to ship brick to other towns which have brick yards, but could not make brick as good as the Chief.

O. H.



## Anderson Machine Works.

BEEMER, NEB., Oct<sup>r</sup> 3, 1890.

DEAR SIR:—I can say and tell the truth, that the New Improved Chief Brick Machine fills the guarantee in every respect, and you can use my name and word it to suit yourselves, and I will sanction it. I have had no trouble nor breakage and am more than pleased with it. Being green in the business and most of my men were green also, but have made splendid brick. The masons who have laid them say they are the best brick they have ever laid in the county, and I feel pretty good over it. Yours, &c.,  
N. W. SERVOS.

OAKLAND, CAL.

GENTLEMEN:—Enclosed find draft for twenty-five hundred and fifty dollars for the five Horse Power Chief Brick Machines, which we have just started ourselves. We feel satisfied that they are all you represent them to be. Respectfully,  
REMILLARD BRICK COMPANY.

TUSCALOOSA, ALA., Dec. 1, 1887.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—I can cheerfully say that the Chief Brick Machine (horse power) that I bought of you last spring has proved to me, after an all season's trial, to be the best of all soft mud machines that I have any knowledge of, and I cheerfully wish you success in your trade with them. OLIVER CALDWELL.

JACKSONVILLE, FLA., Oct. 2, 1889.

The Anderson F. &amp; M. Works, Anderson, Ind.

GENTLEMEN:—Your machine has been duly received, and our superintendent was easily able to put it in running order without any assistance from you or any machine shop. This is our rainy season, and it has rained every day since we have put it in position; consequently we have not been able to get the brick we have made, dry, therefore can not tell you how they will burn. We are sure that your machine can make them as fast as we can get them away. While our boiler is allowed 150 lbs. of steam, we run your machine easily with 25 lbs., and where we burned one and a half cords of wood per day with the die machine, and made 15,000 brick, we can easily make 30,000 with yours with one-fourth of a cord.

Yours truly,  
J. R. Tysen, Pres. THE J. R. TYSEN CO., Limited.

LATON STATION, PA., Dec. 24, 1887.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—We got a machine from you the spring of 1886; run it with the best of satisfaction. Put it up ourselves. Made brick from the start, and no trouble to run 20,000 per day until the last of January, 1887, when we were burned out. Having machine repaired at a cost of \$250, and freights included, (machine was claimed to be a total wreck by the appraiser) and is now in as useful operation as ever, making fine brick. We trust you will have a great success in fire brick sales. Yours truly,

DIAMOND FIRE BRICK CO.



LECLAIRE, IA., Dec. 20, 1887.

Anderson Foundry &amp; Machine Works.

GENTLEMEN:—The Steam Power Chief Brick Machine I purchased of you this season more than fills your guarantee, and I am well pleased with it in every way.

I have made 300,000 brick this season, and I tell you they are just as nice as brick as can be made. The Chief, I believe, will be a long lived machine. We started it up ourselves, and it has cost me nothing for repairs. In short, she is a daisy, and can't be beat.

Yours respectfully,

HUGO BECKER.

NORTH MANCHESTER, IND.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

We think the Chief Brick Mill the best mill in use. We can make all the brick in a day we can take away from the mill—nice and square and with the molds evenly filled, and with the least power.

Yours respectfully,

BAKER &amp; CORE.

HAMMOND, LA., Sept. 18, 1887.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—We are glad to inform you that the Chief we bought of you last spring works our clay nicely and makes a perfect brick.

Yours respectfully,

C. E. GATES.

BEAUMONT, TEXAS, Nov. 3, 1887.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—Please forward me a dump table for Chief Brick Machine, also eight molds same size as my last order, and on receipt shall be prepared to settle with you.

With regard to the machine, I can say that it has given me every satisfaction, far beyond what I had expected. It is equal in every way to its recommendation and guarantee, and should you feel disposed to use my name as reference in advertising, you are at perfect liberty to do so. I remain, yours truly,

N. BLANCHETTE.

CAMARON, MILAN Co., TEXAS, Oct. 1, 1890.

A. F. &amp; M. Works, Anderson, Ind.

DEAR SIR:—The Chief Brick Machine we bought of you gives entire satisfaction. Grinds the mud well and molds a perfect brick. Is easy to run and keep in repair, and we think it is the best soft mud machine in the state. Have made 500,000 brick. Our brick are far superior to our hand-made brick last year, and cheaper, with no tired molder on the pay roll. Wishing you abundant success, we remain,

Yours truly,

IRWIN &amp; AVERA.

PITTSBURG, PA., Jan. 4, 1888.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—The "Chief" Brick Machine which we got of you folks last July has given entire satisfaction and has not been at any expense for repairs, nor broke a mold. It is perfect in every particular, and makes the stiffest clay into brick, five or six at a time, that I ever saw worked by hand for large work. And this is an extra item in fire brick making. We can make 20,000 in eight



hours with ease, and it would not be taken that the men are hard at work. We being third to get one of your machines for fire brick. We wish you great success, and will delight in showing the machine to any whom it may concern. Our place is only  $8\frac{1}{2}$  miles out of Pittsburg on the B. & O. or P., McK. & V. roads, Rankins Station, Pa. Respectfully yours,

CRESCENT FIRE BRICK CO. (Limited.)

IRWIN, PA., Sept. 30, 1890.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—The Improved Chief Brick Machine which we bought of you last summer, we think is the best in the market. It requires less repairing and makes a brick with fuller corners and squarer edges than any machine we know of. It is fully up to our expectations. We are using horse power and are making 12,000 to 15,000 brick per day, without grinding the clay, and with less tempering than brick can be made from by any other machine that we know of, and as soon as we get our pan and steam power in running order, we expect to make 25,000 to 30,000 per day. And one great advantage your machine has over its competitors is, that it will work very stiff clay, and therefore when you put the brick on a dry floor, no difference how hot it is, the brick will not crack, as they will do when made by a machine which will not work a stiff clay.

We can say that your machine is second to none, and parties desirous of purchasing a brick machine will be fully repaid for to spend the time to examine your machine, and we can fully recommend it as being capable of doing the work which its manufacturers claim it will do, and we can't say too much for the machine, notwithstanding we have only had it about three months.

Respectfully yours,

IRWIN BRICK CO., Ltd.

DAVENPORT, IA., Dec. 15, 1887.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—Will say, in reply to yours of recent date, the "Chief" Horse Power is giving perfect satisfaction in every respect. Yours respectfully,

H. B. POHLMAN.

STANBERRY, Mo., Jan. 14, 1887.

Anderson Foundry & Machine Works.

GENTLEMEN:—The Horse Power Chief Brick Machine that I bought of you one year ago is doing its work much better in my clay than I expected any machine could do. It tempers the clay well and makes a good, solid and smooth brick, and as many as my hands are able to take care of, although I operate it with one horse only. This clay is very sticky, so we could not possibly mold a brick by hand and dump it out of the molds; but molded by the Chief the brick slip out of the molds freely and evenly. I am so well pleased that I can make such nice brick out of this sticky clay; as for lightness of draught, it excels any machine that I ever saw.

Yours respectfully,

JAS. MULHOLLAND.



PAULDING, OHIO, Dec. 15, 1887.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN: The "Chief" Brick Machine that we bought of you this season more than fills your warranty, and we think we will be able to sell for you one to a friend of ours soon. Wishing you the best of success in the future, we are,

Yours respectfully, JOSEPH AND HENRY OTTEN.

BUFFALO, WYOMING TERRITORY, Dec. 20, 1887.

A. F. & M. Works, Anderson, Ind.

DEAR SIRS: The Chief Brick Machine I purchased of you this season is without doubt the best brick machine I ever saw. We started it ourselves and have never had one hour's delay on account of breakage. And it has proved better than your guarantee, and my only wish is that every brick yard in the world had one, then we would have perfect brick all over the world. Wishing you success in the future, I remain,

Yours respectfully,

J. R. KEYS.

KINSLEY, KAN., April 22, 1887.

Inclosed find draft for payment of molds, trucks, etc. Machine is giving good satisfaction. Think of putting in another some time during the summer.

Very respectfully,

V. D. BILLINGS.

ELDORADO, KAN.

C. R. Ferguson.

SIR:—We will say that the Chief Brick Machine that we bought of you last spring gives us entire satisfaction, making better brick than can be made by hand, and almost as fine as dry pressed. Machine is almost as good as new today. Have not broken anything to hinder work one hour during the season.

Yours very respectfully,

DAVIS & DALY.

SENECA, KAS., September, 1890.

A. F. & M. Works, Anderson, Ind.

The New Improved Chief (H. P.) Brick Machine that we purchased of you last March we started ourselves and it made perfect brick from the start, and our clay was very hard to work owing to the fact that it has a great many stone in it, but the New Improved Chief makes perfect brick with sharp corners and square edges, runs light, and have had no breakage and have been making brick all season. No one will make a mistake by purchasing the New Improved Chief.

Yours truly,

WETMORE & ACKER.

DANVILLE, ILL., May 2, 1887.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—I am happy to inform you that the Chief Brick Machine that I bought of you works like a clock. No one could have made me believe that a brick machine could have been made to work so smoothly and do the work so well as your machine does. If there is not a fortune in the machine for you then you will not get what you deserve.

Yours truly, JOHN A. LEWIS.



CRAWFORDSVILLE, IND., January, 1889.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—We sent you a form of our sample brick some time ago. They were nice enough for any use, but they are nothing to compare with what we have made since on the Steam Power Chief Brick Machine. We can sell more brick than we can make, and have made this past season one million five hundred thousand. Their quality sells them and they are preferred by contractors to any other brick made here. The Chief is a success and I recommend it to all brick makers. It is simple, strong and does the work to perfection. Respectfully,

MISH & FERGUSON.

KNIGHTSTOWN, IND., Dec. 15, 1887.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—The Horse Power "Chief" we bought of you last May gave us the best of satisfaction, and we can make nicer brick on the Chief than can be made by hand, and it runs very light for two horses. And any one wanting to buy a brick machine we say to him buy a Chief every time. Yours respectfully,

WATTS & PARKER.

MONTICELLO, ILL., Dec. 29, 1889.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—I purchased one of your Chief Brick Machines in 1888 and have run it for two seasons, and I am pleased to report that the machine has given entire satisfaction. Having seen a number of machines of different makes in operation, I must say that I would not exchange the Chief for any other mill now in use. I work stiff clay, yet my brick are perfect in shape with good, square corners. If you have any customer out this way send him to me any time next spring and I will show him that the Chief will make 25,000 brick per day, every brick being perfect. I have not paid out one nickle in the way of repairs. Hoping you will meet with the success your machine merits for you, I am,

Yours truly,

D. O. LOY.

CAIRO, ILLS., Sept. 27, 1890.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—We have been running one of your Chief Brick Machines for some time, and when we started we were told by everybody that there was not a machine made that would work this clay, but we have found that there is a machine that would work it, and that machine is the Anderson Chief. Our clay is tough and hard, but what brick we have made are first class in every respect. Yours truly, HALLIDAY & FLETCHER.

QUINCY, ILL., June 25, 1890.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—We started our machine on the 15th and have made 170,000 brick to date. The Rack and Pallet system is a grand success in every way. All of the proprietors of the hand yards have been out to see us work, and they all admit that our brick are the best that can be made, and the nearest to perfection



they have ever seen. We have all the brick contracted for that we can possibly make, there is not a building brick to be had in the city today. The Chief is advertising itself largely here on account of the admirable work it is doing. Yours truly,

EDWARD J. HUTMACHER.

GREENOCK, PA., Jan. 4, 1889.

GENTLEMEN:—I think the machine is a very good one, and I would have no other for my work. I have used it for over a year, and it does good work—as well as any machine could do.

Respectfully,

HENRY PECKMANN.

ROCHESTER, MINN., Jan. 4, 1889.

Anderson Foundry & Machine Works Anderson, Ind.

GENTLEMEN:—Allow us to say that the Chief Steam Power Brick Machine we bought of you last spring gave us perfect satisfaction in every respect, and we recommend it highly to any one wishing to buy a brick machine. Wishing you future success, I remain,

Yours truly,

E. WHITCOMB.

OCKLEY, IND., Dec. 29, 1888.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—The Chief Brick Machine I bought of you last spring is the machine I wanted. It does its work excellent. It is as you represented in every particular and I am well satisfied with its work. It makes nice and solid brick with sharp edges and corners, better in all respects than I ever worked with. All the brick are of uniform size and no lost labor by throwing back imperfect brick. They can be made just as fast and as slow as a man can take care of them. My engine is an eight horse power and I can run the Chief with 30 to 40 pounds of steam. If this letter can be of any use to you, use it, and if any one in my section of the country wants a brick machine, they can call on me and see what the Chief does. I heartily recommend it to all.

Very respectfully,

E. PEARSON.

BLOOMINGTON, IND., Jan. 5, 1889.

Anderson Foundry & Machine Works, Anderson, Ind.

GENTLEMEN:—Your Chief Brick Machine (horse power) is a complete success and it affords me great pleasure to say to you that the machine has given me entire satisfaction, and I regard it as the only perfect brick molding machine yet manufactured, and far superior to any in use for the following reasons, viz.:

1st. It molds stiffer mud, 2nd. The bricks slip from the molds much more freely than any man can mold by hand and make the molds do. 3rd. It makes squarer and smoother bricks than man can do by hand. 4th. It is less liable to get out of order, and hence less expensive to operate, 5th. Our clay is very stubborn and hard to work. The Chief works and the molds deliver the brick much better than any hand mold brick. 6th. These facts I know from 31 years experience as a brick maker.

Yours respectfully,

BOLTINGHOUSE & MAY.

P. S.—This season has turned out to be an off year, and all of the buildings that were to be built in Bloomington this summer



backed down, so all the trade is only retail, and we have most all of that, but it is all light and I hope it will be better later in the season. I yet think it will. Yours respect., B. & M.

SAVANNAH, GA., Dec. 21, 1887.

The Anderson Foundry & Machine Works, Anderson, Ind.

GENTS:—The Horse Power Chief Brick Machine that I bought from your works, has been in work more or less for nearly a year and has given me general satisfaction. I herewith inclose order for two Steam Power Chiefs, with steam power attachments for the Horse Power Machine, and intend running three Steam Power Machines the coming season.

Yours-truly,

EDWARD LOVELL.

DAVENPORT, IOWA, Dec. 15, 1887.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—Allow us to say that the "Chief" Steam Power Brick Machine we bought of you this season gave us perfect satisfaction in every respect and we recommend it highly to any one wishing to buy a brick machine. Wishing you future success, we remain, Yours truly, JOHN RUCH & BRO.

SOUTH AMANA, IA., Oct. 3, 1890.

Anderson Foundry and Machine Works, Anderson, Ind.

GENTS:—We have just finished making a kiln of brick of a quarter million with your New Improved Chief Brick Machine. The machine has done good work and the brick are well made. Our hands are well pleased with it, and Mr. Wilde, the foreman, says wherever the clay is good enough to be worked by hand the machine is a success. Yours respectfully,

Per Geo. Heineman.

AMANA SOCIETY.

LIMA, OHIO, Dec. 16, 1887.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—The Chief Brick Machine (steam power) I bought of you this season is the "boss," as well as the "Chief" of brick machines. It more than fills your guarantee. I made a little more than 2,000,000 brick this season, although I got a late start this spring. I will do better next season, and if you have any inquiries near here send them to visit me and I will take great pleasure in showing up the "Chief." Hoping you will have a large trade the coming season, I remain, Yours respectfully,

A. SIMONS.

WAUKEGAN, ILL., Jan. 5, 1889.

Anderson Foundry and Machine Works.

GENTLEMEN:—The Chief Brick Machine bought of you last spring we think, cannot be beaten. We set it up and started it ourselves. It has cost us nothing for repairs. Have made nearly 1,000,000 brick the past season. We mold 17,000 for a day's work, putting them out in eight hours easily. I have put out 8,000 in three hours. It seems a pleasure to make brick with the Chief, because it is always all right.

Yours truly,

CHAS. SPAULDING & SON.



LOGANSPORT, IND., January, 1889.

Anderson Foundry &amp; Machine Works.

GENTLEMEN:—The Chief Brick Machine bought of you has proved entirely satisfactory, filling in every particular your guarantee to us, both as to the quality of the brick and the number it would make in ten hours. We would be glad to cheerfully recommend the Chief Brick Machine to any one wanting the Pride of the World as a brick making machine, unequaled as far as we have ever seen. If this will be any benefit, or you want anything further, we advise parties to come and see us, and we will show them the Chief in action. Your respectfully,

REDMOND &amp; GIBSON.

ANDERSON, IND., Jan. 7. 1889.

A. F. &amp; M. Works, Anderson, Ind.

DEAR SIR:—You are aware that the New Improved Chief Brick Machine that we purchased of you last spring has been successfully operated here in a clay that other machines have failed in. We take the opportunity to inform our brother brick makers that we are running every day, except Sunday, making a daily output of 25,000 brick a day and of the nicest, and perfect square brick that it is possible to make. The brick are bragged on by our brick masons. In the face of the fact that nearly everybody has predicted that we would make a failure here with the Chief in this clay, which is a strong, sticky clay, and it has not cost us one cent in the way of repair. We also invite you to fetch any one that may visit you to come to our works and let them see the best soft mud machine that has ever been invented at work. We work all the year around. Yours truly, JONES & CLEMENS.

WHAT CHEER, IA., Jan. 10. 1889.

Anderson Foundry &amp; Machine Works.

GENTLEMEN:—I think it will not be out of place to write you in regard to the Horse Power Chief Brick Machine I bought of you in the spring of 1887. Am glad to say it beats my expectation, for my clay is a joint clay and very sticky, and I expected to have trouble with it in sticking in the molds. But I must say I felt proud when I saw the brick leave the molds smooth and square, a far better quality than I have ever been able to produce by hand or other machine. I use the pallet and rack system. I find that I can make a better brick now than I ever did before. I remain,

Yours in friendship,

JOHN BOLTON.

OCKLEY, IDAHO, Dec. 27, 1889.

A. F. &amp; M. Works, Anderson, Indiana.

GENTLEMEN:—The New Improved Chief Horse Power Brick Machine which we purchased of you last June we started ourselves and never had one hour's trouble from the start, and it has never cost me one cent for repair, and makes the finest and best brick I ever saw. Yours truly,

MESSRS. GEO. BUNN &amp; SONS.



OSKYA, MISS., Dec. 24, 1889.

GENTLEMEN:—The New Improved Chief Horse Power Brick Machine works like a charm, and gives us perfect satisfaction.

Yours truly,

MOORE &amp; FORDESH.

P. S.—You can refer any to us who wants to know anything about the machine.

M. &amp; F.

ST. PAUL, MINN., Dec. 16, 1889.

Anderson Foundry &amp; Machine Works, Anderson, Indiana.

GENTLEMEN:—We have used one of your Anderson Chief Brick Machines the past season at our yard located at Tramway, Dunn county, Wisconsin. The clay is of a tough and laminated nature, being very hard to work. We have used two sizes of molds, being  $9 \times 4\frac{1}{2} \times 2\frac{1}{2}$  and  $10\frac{1}{8} \times 4\frac{1}{8} \times 3\frac{1}{8}$  in order to test your machines as to quantity and quality of brick produced, and we are pleased to say that it has fully met our expectations. This season our plant was so situated that we could not work the machine to its full capacity, but are convinced that, with proper management, there would be no difficulty in producing 40,000 brick per day in ten hours.

Respectfully.

KIRKLAND &amp; STARKEY.

ANDERSON, IND., January 2, 1890.

A. F. &amp; M. Works, Anderson, Indiana.

After years of experience in the brick business we concluded last spring to use the Chief machine. We put one in and after running through the season have no hesitancy in saying it has proven all we could desire; in some particulars the machine has exceeded our expectations.

MALONE BROS.

Per H. H. M.

HUMPHREY, NEB., Dec. 24, 1889.

A. F. &amp; M. Works, Anderson, Indiana.

The New Improved Horse Power Chief Brick Machine I purchased of you last spring I set up and it worked to perfection from the start, and it made the nicest brick ever seen in this part of the country. I have run it all season and have never paid out one cent for repairs.

Yours truly,

PETER FEDDERSON.

BUCKINGHAM, W. VA., Oct. 6, 1890.

A. F. &amp; M. Works.

GENTS:—Everything has arrived and put to work, and it works like a top. Am well pleased. I have strong clay and it works the best of anything I have ever seen.

Yours truly,

WM. GROSCOP.

OFFICE OF THE WEST END BRICK AND TILE WORKS, }  
ROANOKE, VA., December 9th, 1889. }

Anderson Foundry &amp; Machine Works, Anderson, Indiana.

GENTLEMEN:—The brick season for this year is about over, and before closing for the winter we wish to add our little mite to the long list of testimonials regarding the Chief Brick Machine. We purchased one of these machines last spring, and have made this season nearly 3,000,000 brick with entire satisfaction in every respect, regarding the operations of the machine, and with very



little expense for repairs. We find the Chief all that its name implies, and can recommend it to every one wanting a first-class machine. With best wishes for a prosperous New Year, we remain,  
Yours very truly,

WEST END BRICK & TILE WORKS.

A. L. GORLEY, President.

R. C. GILMORE, Assistant Secretary and Treasurer.

BASIC CITY, VA., May 27, 1880.

A. F. & M. Works, Anderson, Ind.

DEAR SIR:—Enclosed please find check for Chief Brick Machine and fixtures according to our contract, would have sent sooner but was waiting, thinking I could send two more orders for machines with check, but have not closed, yet thinking it best to send check and let you know how I am pleased with the Chief. It has been so rainy that I could not get machine up, so I put it in place where I had a small ——— machine, and dug clay from the bank, so anxious were we to try the machine, and in a few minutes it was on the yard into brick, and nice ones at that, square, full, nice solid brick. We did not temper the clay at all. Since I have given it a better chance it is perfection, only trouble I have is to get men enough to run machine to full capacity, as it makes hands get up and dust. It is customary for purchasers to compliment any new machine that does nice work, but if this machine did not give me perfect satisfaction you certainly would hear from me. I don't see how it could do any nicer work and so rapid. I am pleased in every respect with the machine and your company.

Yours truly,

E. SMITH DINKLE.

Proprietor Basic City Brick Manufacturing Company.

BASIC CITY, VA., July 4, 1890.

A. F. & M. Works.

Please ship two more machines at once.

E. SMITH DINKLE.

ELKHORN, NEB., December 16, 1889.

A. F. & M. Works, Anderson, Indiana.

The New Improved Chief Horse Power Brick Machine I purchased of you last March gives perfect satisfaction. I had no trouble in starting it myself, and have never had any trouble since, and it has not cost me one cent for repairs, and it makes the most perfect brick ever seen in this part of the state. If you have any inquiries from this part of the country send them to my yard, and I will show them the very best brick machine in the world to the best of my knowledge. Yours truly,

A. HOLISTER.

KENT'S MILLS, LA., December 16, 1889.

A. F. & M. Works, Anderson, Indiana.

GENTLEMEN:—The more we use the New Improved Steam Power Chief Brick Machine the better we like it. We have not paid out one cent for repairs, and if you have any inquiries near us send them to our yard and we will take great pleasure in showing them the Chief. Yours truly,

AMOS KENT & SON.



SEDAN, IND., Dec. 21, 1889.

A. F. & M. Works, Anderson, Indiana.

The New Improved Chief Horse Power Brick Machine I am well pleased with, the machine will do more than you claim for it, it works my clay better than I thought it could. I have not had one hour's trouble and started it myself, and have not paid out one cent for repairs. My team runs it with ease. Yours truly,

C. M. REYNOLDS.

MENOMONIE, WIS., Dec. 24, 1889.

A. F. & M. Works, Anderson, Ind.

We are very much pleased with the New Improved Chief (steam power) Brick Machine we purchased of you Feb. 15, 1889. We have run the machine a whole season without a break, and averaged 40,000 perfect brick per day. Yours truly,

SAINT PAUL BRICK & TILE CO.

Miller Winterbotham, Manager.

P. S.—We are glad to accede to your request, and would be glad to answer any one who you may refer to us by letter. M. W.

CHALMERS, Ind., Dec. 24, 1889.

A. F. & M. Works, Anderson, Ind.

We bought a New Improved Chief Brick Machine of you last spring, and would say to any one looking for a brick machine not to waste any time, but buy the New Improved Chief.

Yours truly, REYNOLDS BBOS.

SIOUX FALLS, SOUTH DAKOTA, Dec. 24, 1889.

A. F. & M. Works, Anderson, Ind.

The New Improved Chief (Horse Power) Brick Machine that I purchased of you last spring surprised me, as it is so much better than the first one I had which I thought was the best on the market; the Chief being more simple, making and pressing the brick more solid than any machine I have ever seen. I have not paid out one cent for repairs this season.

Yours truly, DANIEL DONAHOE.

LEBANON, TENN., Oct. 15, 1890.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—I am perfectly satisfied with the New Improved Chief Brick Machine I bought of you last spring. It does its work well. It has not caused the least delay since being started and no extra cost whatever for repairs. I do not see how it is possible to strain or break the machine; the safety pin arrangement is a great invention. Wishing you success, I remain,

Yours truly, W. G. PAGE.

TERRE HAUTE, IND., Oct. 13, 1890.

A. F. & M. Works, Anderson, Ind.

GENTLEMEN:—Enclosed find our check for \$650 for the New Improved Chief Brick Machine as per contract. The Chief is working fine. We have been making stock brick until we received the dies and molds for paving brick, now we are making paving brick that cannot be beat. We will want more dies and molds of other shapes soon. Yours truly,

R. Andrews, Supt. LANCASTER BLOCK COAL CO.



ELKHART, IND., December 16, 1889.

A. F. &amp; M. Works, Anderson, Ind.

GENTLEMEN:—The Chief Brick Machine which we purchased of you last August is all that you claimed for it, and more. Within five days after we ordered the machine it was on the track ready for work. The sixth day, with only five men to operate it, we made 10,000 perfect brick. We consider the name "Chief" to be the correct name for it, as it certainly is chief of all brick machines. To those desiring to purchase a brick machine we respectfully recommend the Chief. 1st, In regard to its durability. 2nd, It is easy to operate. 3rd, The products of the machine are not surpassed by those of any other in smoothness and outline.

Very respectfully, REMENDERFER &amp; BEASECKER.

WAUKEGAN, ILL., Dec. 10, 1889.

A. F. &amp; M. Works, Anderson, Ind.

GENTLEMEN:—Yours of the 6th received. We can say the steam power more than comes up to expectations. We were delayed but a few days changing it over and had no trouble whatever. Have made over two million brick with the Chief, and it is worn nothing to speak of. We do 20,000 for a day's work. Expect to run 25,000 next season to be sure more brick can be put through, but we go for quality as much as quantity. We remain,

Yours &amp;c,

CHAS. SPALDING &amp; SON.

Anderson Foundry &amp; Machine Works, Anderson, Ind.

GENTLEMEN:—The New Improved "Chief" Steam Power Brick Machine I purchased of you last spring has given perfect satisfaction. I mold 25,000 brick for a day's work and put them out easily in about eight hours, and they are good square brick. It is certainly a strong and durable machine and fills the molds splendidly. I wish you great success and will take delight in showing your machine to any whom it may concern and would truly recommend it to any one wishing a good, strong, easy-running machine. I wish you as great success in your sales to others and remain,

Truly yours,

EDWARD KING.

NORTH PACIFIC JUNCTION, MINN., Dec. 21, 1889.

A. F. &amp; M. Works, Anderson, Ind.

The New Improved (horse power) Brick Machine is a daisy, as you know it passed through our great fire and came out all O. K. except the molds, and as they were made of wood they were destroyed, but after getting new molds we started it up ourselves and have never had one minute's trouble or delay. It run right along until the end of the season without costing one cent for repairs.

Yours truly,

FRED HABHEGGER.

P. S.—I give you permission to use my name in praising your machine the best way you see fit, as I am well pleased and would have no other on my yard.

F. H.



ELWOOD, INDIANA, Dec. 23, 1880.

A. F. &amp; M. Works, Anderson, Indiana.

GENTLEMEN:—The New Improved Chief (Steam Power) Brick machine I purchased of you, works to my entire satisfaction, and makes the most perfect brick with the squarest edges that have ever been in our city. Wishing you the best of success, I remain,

Yours truly, STEPHEN NOFTSKER.

GEORGETOWN, KY., January 16, 1891.

Anderson F. &amp; M. Works, Anderson, Ind.

GENTLEMEN:—It affords me great pleasure to bear witness to your Chief Brick Machine. During the short time it has been in use I have turned out brick of a quality far superior to any brick made in this part of the country, the corners being well filled out and the brick squarer and firmer than those made by any machine that I have seen. I feel that it is the cheapest and most durable machine in the market. Wishing that you may have great success in the sale of your machine, I remain,

Very truly yours,  
R. H. WOLFE.

Successor to Tanner &amp; Bryant.

P. S.—Accept thanks for prompt shipment of casting ordered by Mr. Tanner.

Yours, etc., R. H. W.

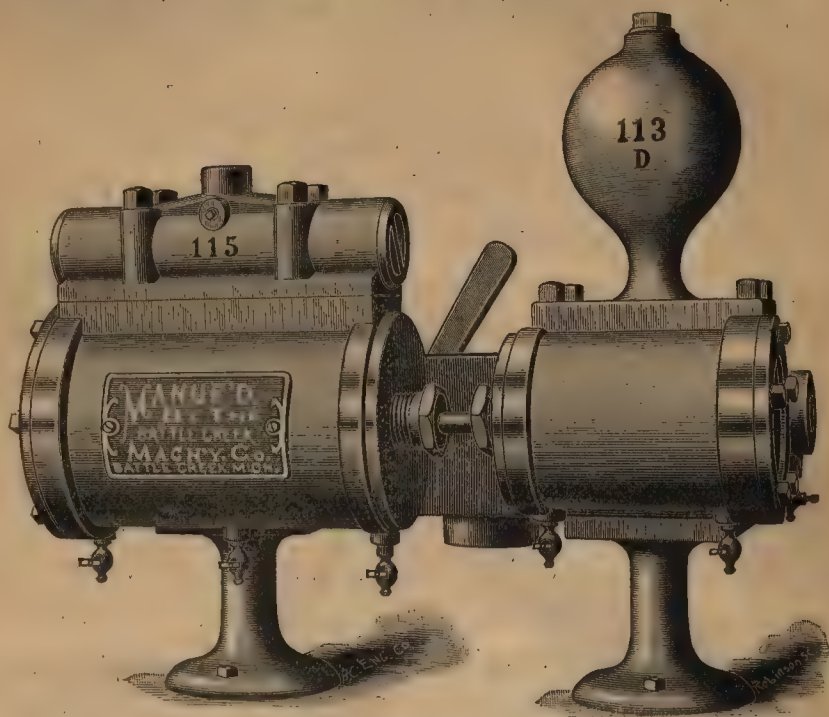


## ENGINES.

We have constantly in stock Second-Hand Portable Engines that we have thoroughly overhauled and put in perfect repair, which we will guarantee to be practically as good as new, any one of which is capable of running two Chief Brick Machines with ease. These Engines can be sold at prices ranging from \$300 to \$500 each.

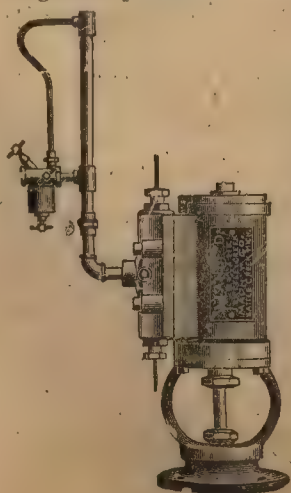


# MARSH STEAM PUMP.



The above cut shows style of Double Acting Force Pump and Boiler-Feeder. Capacity, 350 to 1,200 gallons per hour.

The lower cut shows style of deep well or lifting pump. Capacity, about 500 gallons per hour.



We are agents for these Pumps, and always have an assortment of them on hand, and are therefore prepared to furnish them to our customers on short notice, and at the lowest price.

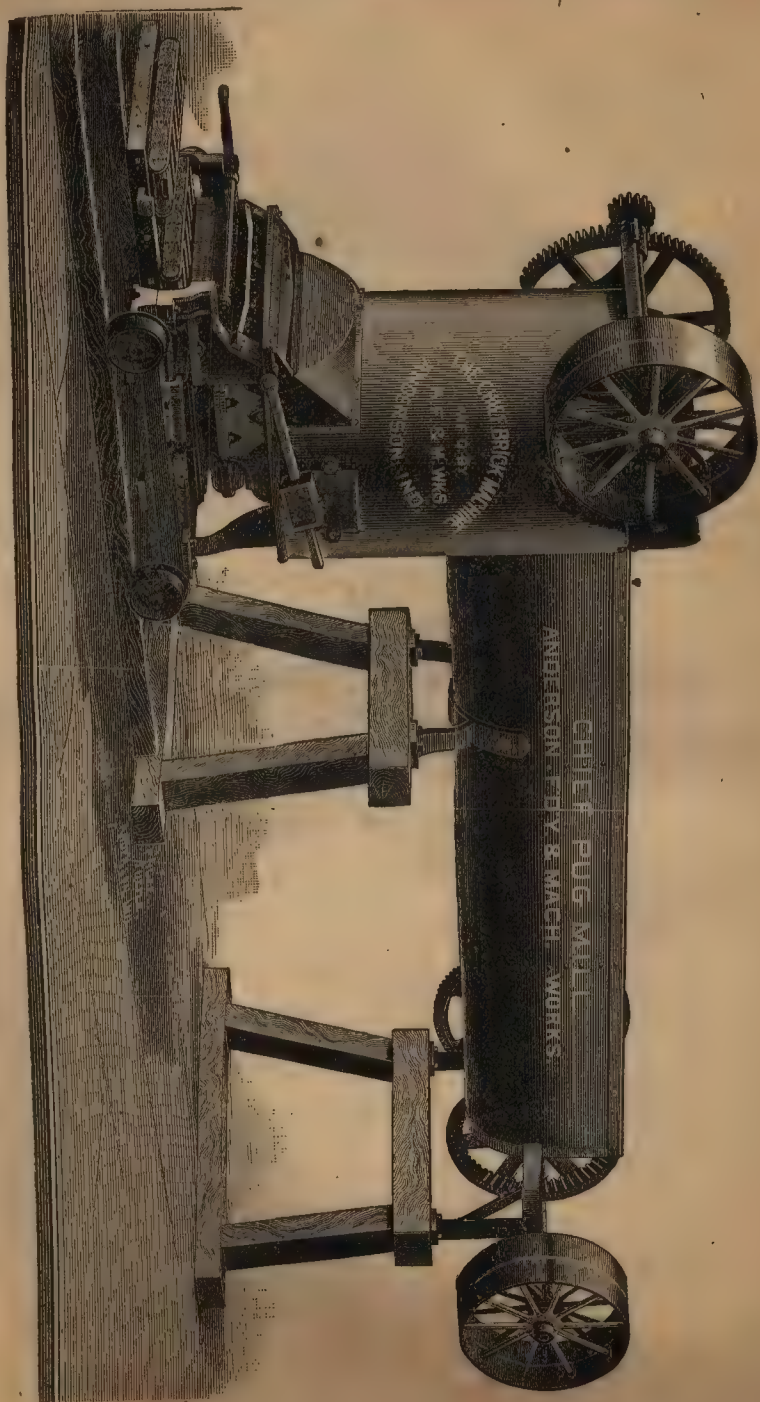


## OUR PUG MILL.

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The opposite cut shows our all steel and iron Pug Mill. The sides and bottoms are of extra heavy steel boiler plate and well braced with heavy cast iron ends and wrought iron cross bars and heavy angle bars extending the entire length of the mill. The pugging shaft is of three-inch, cold-drawn round steel, and has outside bearing to take end thrust. It is also provided with packing rings which successfully prevents the clay from working into the bearings and cutting them out. This Pug Mill is made in lengths of eight and twelve feet. Brass oil cups, with tubes leading to the bearings, are attached so that the mill can be easily and conveniently oiled from the outside of the mill while in operation. It is driven with a double compound gearing and is provided with a tight and loose pulley 30 inches in diameter, with six-inch face, which should be driven 240 revolutions per minute, giving the pugging shaft about six revolutions per minute. It is also provided with a flanged casting so that it can be easily attached to any brick machine. Price, \$225.00 and \$250.00.







The opposite cut illustrates the mode of setting our Self-Contained Engines with Return Tubular Boilers, which for stationary purposes are almost universally adopted. These boilers are made of steel plates, with longitudinal seams DOUBLE RIVETED; are thoroughly braced and subjected to hydrostatic test before shipment.

The cut was taken from one of the smaller sized boilers, but fairly represents all the sizes given below.

The boiler fixtures comprise Arch Front, Grates, Bearing Bar, Back Plate, Back Stand, Safety Valve, Steam Gauge, Water Gauge, Gauge Cocks, Whistle, Blow-Off, Check Valve, Stop Valve, Chimney and Guys.

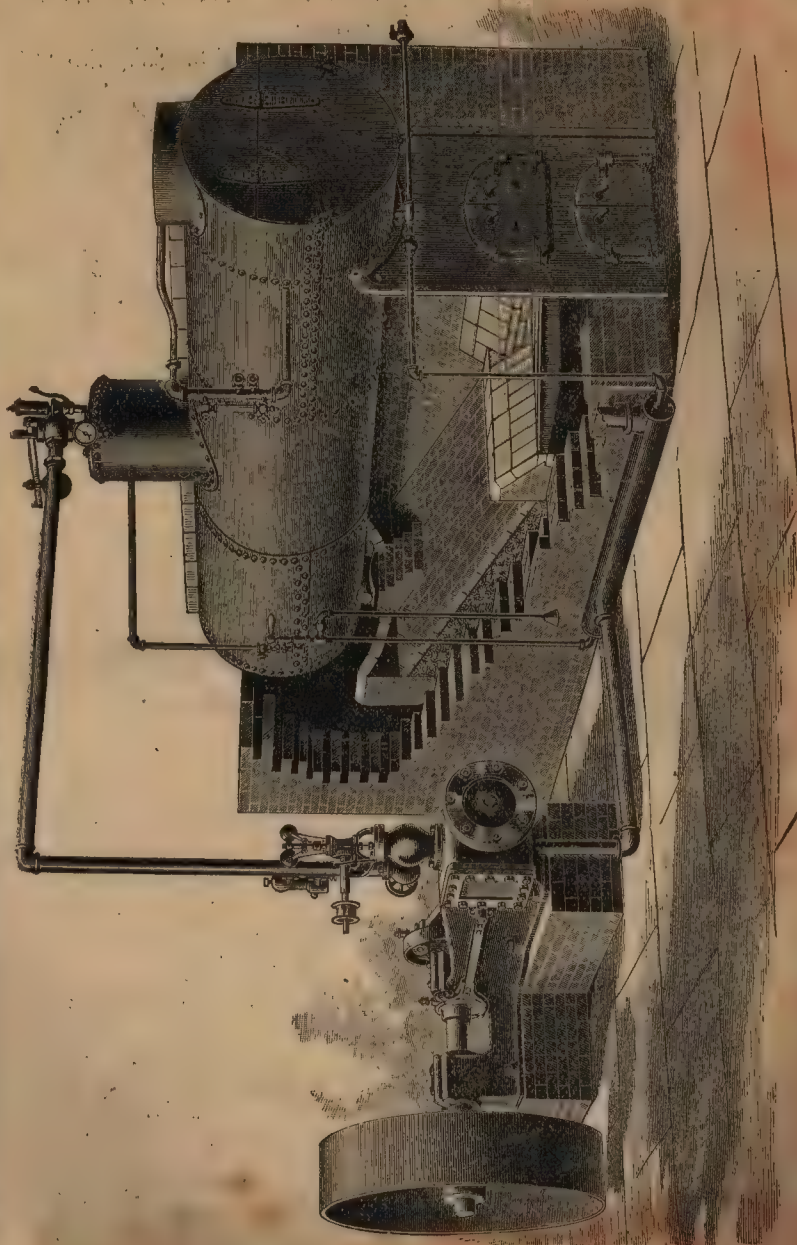
The engine fixtures comprise Spanner Wrenches, Cylinder Lubricator, Oil Cups, Drain Cocks and Governor Belt. When engine and boiler are both sold, we include Steam, Exhaust and Feed Water Pipes, Heater and Feed Water Injector.

HORSE POWER.	12	15	20	25	30	35	40	50	65	80
Size of engine.....	7 x 10	8 x 10	9 x 13	10 x 12	10 x 14	11 x 14	13 x 16	13 x 16	14 x 18	16 x 20
Diameter of Boiler, inches.....	32	32	36	36	40	44	48	52	56	60
Length of Tubes, feet.....	8	10	10	12	12	12	12	14	14	14
Diameter of Tubes, inches.....	3	3	3	3	3	3	3	3½	3½	3½
Number of Tubes.....	18	18	26	26	32	38	46	42	48	62
Size of Dome, inches.....	18 x 18	18 x 18	30 x 20	30 x 20	24 x 24	26 x 26	28 x 28	32 x 32	34 x 34	36 x 36
Length of Grates, inches.....	36	42	42	48	48	48	48	54	54	54
Number of Grates.....	11	11	13	12	14	15	16	18	19	20
Diameter of Chimney, inches.....	14	14	16	16	18	20	22	24	26	30
Length of Chimney, feet.....	25	30	30	35	35	35	35	40	40	40
Estimated weight of Engine and fixtures.....	1,600	1,740	2,850	3,033	3,860	4,100	5,037	5,200	7,500	10,000
Estimated weight of Boiler and fixtures.....	3,211	3,569	4,485	5,000	5,700	6,900	8,283	10,033	11,400	13,500
Estimated weight of outfit.....	4,811	5,309	7,335	8,033	9,560	11,000	13,330	15,233	18,900	23,500
Price.....										

NOTE—These specifications are subjected to such modifications as, in our judgment, will tend to improvement either in design or proportion.



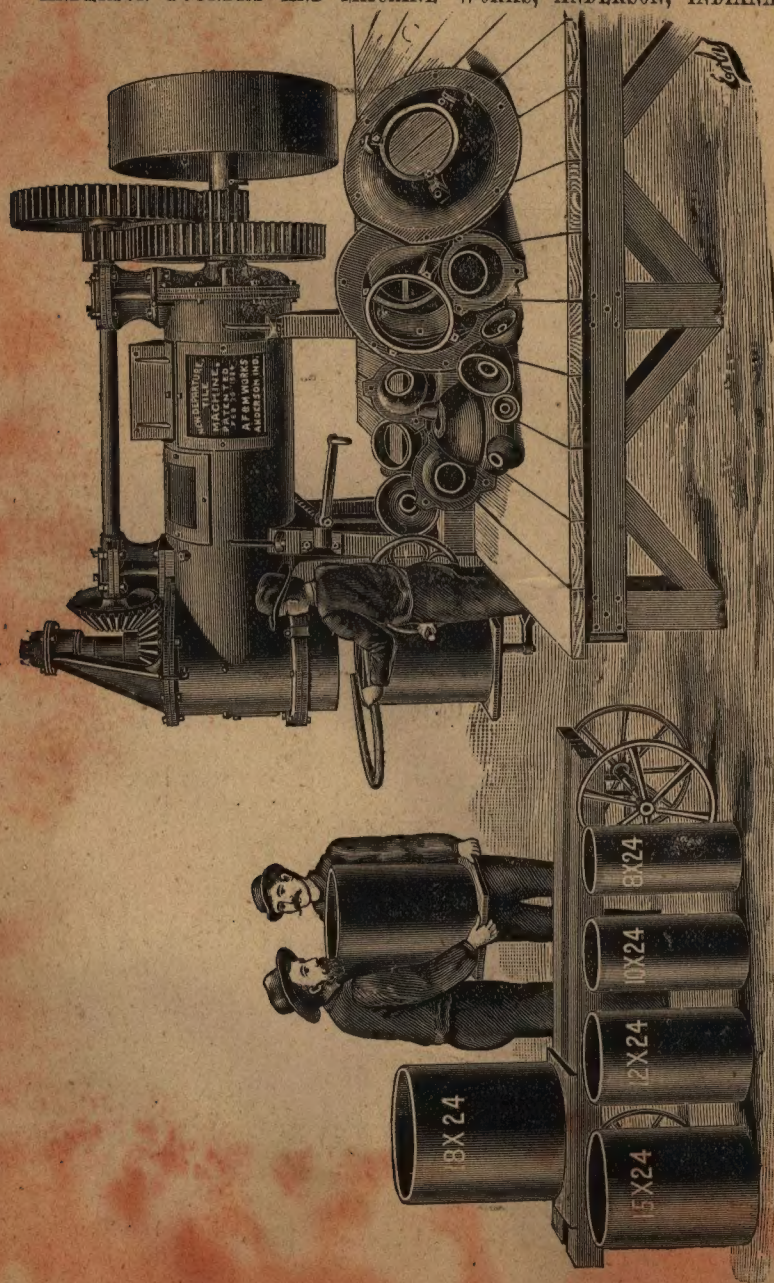
SELF-CONTAINED ENGINES AND STATIONARY BOILERS.





# Improved New Departure Tile Machine

MANUFACTURED BY  
ANDERSON FOUNDRY AND MACHINE WORKS, ANDERSON, INDIANA,



Makes perfect Tile in all sizes from 3 inches to 18 inches in diameter. Has no Bridge Trees. Main Shafts and Mitre Gears are of steel. The best Tile Machine made. Write for Catalogue and Price List.



We Are Also Manufacturers of the Celebrated

# New Departure Tile Machine,

AND THE LATEST IMPROVED

## Stationary and Portable Engines,

And Stationary and Portable Boilers, Saw Mills,

—AND—

## Steam Heaters

For Dwellings, Public Halls and Business Rooms.

ALSO MANUFACTURERS OF

## Brick Makers' Supplies

—SUCH AS—

Molds, Trucks, Barrows, Pulleys,

Line Shafting, Etc.



# The New Improved Chief Brick Machine.



## HORSE-POWER MACHINE.

- No. 1 Represents filled Mold after being pushed out from machine.
- No. 2 Represents empty Mold being inserted in the machine.
- No. 3 Represents Steel Crank with connecting rod that moves plunger.
- No. 4 Represents Mold Slide that pushes out the mold.
- No. 5 Represents Weight on Lever that throws back lid after machine has relieved itself of obstacles.
- No. 6 Represents Lever regulating pressure.
- No. 7 Represents Brackets used for bumping molds.
- No. 8 Represents Adjustable Plate, where the wear is taken up.
- No. 9 Represents the Shoe to which the sweep, or pole, is attached.
- No. 10 Represents Hopper, 30 inches long, where machine is fed.



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No. 8 Represents the part of the machine where the wheel is turned up.  
No. 9 Represents the Shoe to which the sweep, or pole, is attached.  
No. 10 Represents Hopper, 30 inches long, where machine is fed.